

[54] **NOVEL POLYBUTADIENE DERIVATIVE
CURABLE WITH IONIZING RADIATION**

[75] Inventors: **Kunio Araki; Takashi Sasaki; Keiji Nishio**, all of Takasaki, Japan

[73] Assignee: **Japan Atomic Energy Research Institute**, Tokyo, Japan

[22] Filed: **Feb. 29, 1972**

[21] Appl. No.: **230,486**

[30] **Foreign Application Priority Data**

Mar. 4, 1971 Japan..... 46-10964

[52] **U.S. Cl.**..... **260/77.5 CR**, 117/132 B, 117/132 CB, 204/159.19, 204/159.2, 260/17.4 BB, 260/37 N, 260/94.7 N, 260/859 R, 260/879

[51] **Int. Cl.**..... **C08g 22/00**

[58] **Field of Search**.... 260/77.5 CR, 77.5 AT, 85.1, 260/94.7 N; 204/159.19, 159.2

[56]

References Cited

UNITED STATES PATENTS

3,431,235	3/1969	Lubowitz.....	260/77.5 CR
3,468,923	9/1969	Koenig et al.	260/77.5 AT
3,654,336	4/1972	Krimm et al.	260/77.5 AT

Primary Examiner—M. J. Welsh

Attorney, Agent, or Firm—Stevens, Davis, Miller & Mosher

[57]

ABSTRACT

A novel polybutadiene derivative is prepared substantially by reacting a polymeric butadiene containing at least about 30% of 1,2-bond and a functional group having an active hydrogen with an isocyanate compound having a vinyl group. The derivative is readily cured by means of an ionizing radiation, and is useful for molding, coating, bonding and the like.

8 Claims, No Drawings